24. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals, further including
means in the base station for separate processing of the transmit broadcast data and the transmit personalized data in the frequency domain, and means for combining the broadcast and personalized data in the frequency domain, prior to conversion to the time domain for transmission.

25. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals, further including
means in the subscriber unit for converting the received signals to the frequency domain, means for separating the broadcast data and the personalized data in the frequency domain, and means for separate processing of the broadcast data and the personalized data in the frequency domain.

26. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals, further including
means in the base station for transmitting personalized data to each subscriber, comprising means for a transmission of signals orthogonal to the broadcast signals and to the signals transmitted from the subscriber units.

27. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals,
wherein the transmitting
means further includes a personalized data channel which is inserted after the OFDM interleaver stages and in the frequency domain.

28. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals,
wherein the transmitting
means further includes means for a dynamic allocation of subcarriers to personalized information.

29. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and receiving means in the base station for receiving the orthogonal signals,
wherein the transmitting
means in the base station further includes means for separate processing of transmit broadcast data and the transmit personalized data in the frequency domain.

30. The broadcast SFN system according to claim 29,
further including means
for combining the processed transmit broadcast data and transmit personalized data, and means for converting the resulting signal to a time domain prior to its transmission.

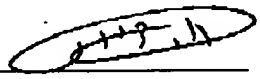
Claims 31-32 (Canceled) --

REMARKS

Responsive to the Office Action, the claims 31 and 32 have been canceled.

In view of the foregoing, it is believed that this application is now in condition for allowance.

Respectfully submitted,



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